Express Mail No. EL963273288US ELM/002 Cont. 4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

: Glenn J. Leedy

Application No. : 10/672,961

Confirmation No.: 9439

Filed

: September 26, 2003

For

: THREE DIMENSIONAL STRUCTURE INTEGRATED

CIRCUIT

Examiner

: Not yet assigned

Group Art Unit : 2811

New York, New York 10020

September 23, 2004

Mail Stop Amendment Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97, applicants wish to call the attention of the Examiner to the following documents:

### U.S. Patent Documents

Foster	2,915,722	12/01/59
Farrand	3,202,948	08/24/65
Lesk	3,559,282	02/02/71
Burkhardt	3,560,364	02/02/71
Emmasingel	3,602,982	09/07/71
Medicus	3,615,901	10/26/71
Napoli et al.	3,716,429	02/13/73
Krishna et al.	3,777,227	12/14/73
Kuipers	3,868,565	02/25/75
Yerman	3,922,705	11/25/75
Wanlass	3,997,381	12/14/76
Stein	4,070,230	01/24/78

Greenwood et al.	4,131,985	01/02/79
Hauser, Jr. et al.	4,142,004	02/27/79
Hoeberechts	4,251,909	02/24/81
Kubacki	4,262,631	04/21/81
Shioya et al.	4,394,401	07/19/83
Trenkler et al.	4,401,986	08/30/83
Thomas et al.	4,416,054	11/22/83
Shibata	4,500,905	02/19/85
Takaqi et al.	4,539,068	09/03/85
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Belanger et al.	4,617,160	10/14/86
Shimizu et al.	4,618,397	10/21/86
Schmitz	4,618,763	10/21/86
Christensen	4,663,559	05/05/87
Burns et al.	4,684,436	08/04/87
Hatada	4,693,770	09/15/87
Maeda et al.	4,702,336	10/27/87
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Go	4,706,166	11/10/87
Stevenson	4,721,938	01/26/88
Reid	4,761,681	08/02/88
Holmen et al.	4,784,721	11/15/88
Freeman	4,810,673	03/07/89
Mattox et al.	4,825,277	04/25/89
Tam et al.	4,857,481	08/15/89
Wang, et al.	4,892,753	01/09/90
Clements	4,897,708	01/30/90
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Lee et al.	4,952,446	08/18/90
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Leedy	5,103,557	04/14/92
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Eichelberger	5,111,278	05/05/92
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Roy	5,132,244	07/21/92
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Tuckerman	5,274,270	12/28/93
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Leedy	5,323,035	06/21/94
Wojnarowski	5,324,687	06/21/94
Leedy	5,354,695	10/11/94
MacDonald	5,363,021	11/08/94
Goossen	5,385,632	01/31/95
Nelson et al.	5,385,909	01/31/95
Fujii et al.	RE 34,893	04/04/95
Shimoji	5,420,458	05/30/95
Miyake	5,424,920	06/13/95
Finnila	5,426,072	06/20/95
Akagi et al.	5,426,363	06/20/95
Yasohama et al.	5,432,444	07/11/95
Carson et al.	5,432,729	07/11/95
Hauck et al.	5,434,500	07/11/95
Leedy	5,451,489	07/18/95
Leedy	5,453,404	09/26/95
Gurtler et al.	5,457,879	10/17/95
	5, 15, 10, 5	10/1//33

Naruse	5,476,813	12/19/95
Gates	5,489,554	02/06/96
Bertin et al.	5,502,667	03/26/96
	5,512,397	04/30/96
Pati et al.	5,527,645	06/18/96
Koskenmaki et al.	5,529,829	06/25/96
Frye et al.	5,534,465	07/09/96
Toshiaki et al.	5,555,212	09/10/96
Ramm et al.	5,563,084	10/08/96
	5,571,741	11/05/96
Leedy		
Leedy	5,580,687	12/03/96
Ludwig et al.	5,581,498	12/03/96
Pierrat	5,582,939	12/10/96
Hornbeck	5,583,688	12/10/96
Leedy	5,592,007	01/07/97
Leedy	5,592,018	01/07/97
Heijboer	5,595,933	01/21/97
Noda	5,606,186	02/25/97
Tennant et al.	5,627,112	05/06/97
Leedy	5,629,137	05/13/97
Leedy	5,633,209	05/27/97
Val	5,637,536	06/10/97
Leedy	5,654,127	08/05/97
Leedy	5,654,220	08/05/97
Hudak et al.	5,656,552	08/12/97
Chen et al.	5,675,185	10/07/97
Ohara et al.	5,694,588	12/02/97
Leedy	5,725,995	03/10/98
Weise et al.	5,750,211	05/12/98
Bozso et al.	5,760,478	06/02/98
Okonogi	5,773,152	06/30/98
Rolfson	5,786,116	07/28/98
Zavracky et al.	5,793,115	08/11/98
Ray	5,831,280	11/03/98
Leedy	5,834,334	11/10/98
Leedy	5,840,593	11/24/98
Ito et al.	5,856,695	01/05/99
Sotokawa et al.	5,868,949	02/09/99
Leedy	5,869,354	02/09/99
Sweatt et al. Davidson	5,870,176	02/09/99
Field et al.	5,880,010 5,882,532	03/09/99
Hübner	5,902,118	03/16/99
TADITO I	J, JUZ, 110	05/11/99

T 3	E 015 165	06/00/00
Leedy	5,915,167	06/22/99
Leedy	5,946,559	08/31/99
Leedy	5,985,693	11/16/99
Cutter et al.	5,998,069	12/07/99
Leedy	6,008,126	12/28/99
Leedy	6,020,257	02/01/00
Wang, et al.	RE 36,623	03/21/00
Houston	6,045,625	04/04/00
Adamic, Jr.	6,084,284	07/04/00
Brix, et al.	6,087,284	07/11/00
Gardner et al.	6,097,096	08/01/00
Leedy	6,133,640	10/17/00
Tayanaka	6,194,245 B1	02/27/01
Aleshin et al.	6,197,456 B1	03/06/01
Leedy	6,208,545 B1	03/27/01
Patti	6,236,602 B1	05/22/01
Lin	6,261,728 B1	07/17/01
Leedy	6,288,561 B1	09/11/01
Leedy	6,294,909 B1	09/25/01
Momohara	6,518,073	02/11/03

# Foreign Patent Documents

DE	32 33 195	03/1983	Germany
JP	60-74643	04/1985	Japan
JP	S60-126871	07/1985	Japan
ΕP	0 189 976	08/1986	EPO
JP	S63-229862	09/1988	Japan
JP	H01-199476	09/1988	Japan
26	41129	12/1988	France
EP	0 314 437	05/1989	EPO
GB	2,215,168	09/1989	UK
JP	402027600A	01/1990	Japan
JP	02-082564	03/1990	Japan
JΡ	H03-284871	12/1991	Japan
WO	92/03848	03/1992	PCT
JP	04-076946	03/1992	Japan
JP	04-083371	03/1992	Japan
JP	04-107964	04/1992	Japan
JP	04-196263	07/1992	Japan

EP 0 731 525	09/1996	EPO
WO 98/19337	05/1998	PCT
WO 01/05366	01/2001	PCT

#### Other Documents

Aboaf, J.A., "Stresses in  $SiO_2$  Films Obtained from the Thermal Decomposition of Tetraethylorthosilicate - Effect of Heat Treatment and Humidity," J. Electrochem. Soc.: Solid State Science; 116(12): 1732-1736 (Dec. 1969).

Scheuerman, R.J., "Fabrication of Thin Dielectric Films with Low Internal Stresses," J. Vac. Sci. and Tech., 7(1): 143-146 (1970).

Bailey, R., "Glass for Solid-State Devices: Glass film has low intrinsic compressive stress for isolating active layers of magnetic-bubble and other solid-state devices," NASA Tech Brief (1982).

Alloert, K., et al., "A Comparison Between Silicon Nitride Films Made by PCVD of  $N_2$ -SiH<sub>4</sub> /Ar and  $N_2$ -SiH<sub>4</sub>/He," Journal of the Electrochemical Society, Vol. 132, No. 7, pp. 1763-1766, (July 1985).

Nguyen, S.V., "Plasma Assisted Chemical Vapor Deposited Thin Films for Microelectronic Applications, *J. Vac. Sci. Technol.* Vol. B4, No. 5, pp. 1159-1167, (Sep/Oct. 1986).

Wolf, Stanley, "Basics of Thin Films," Silicon Processing for the VLSI Era, pp. 115, 192, 193, and 199 (1986).

Knolle, W.R., et al., "Characterization of Oxygen-Doped, Plasma-Deposited Silicon Nitride," *Journal of the Electrochemical Society*, Vol. 135, No. 5, pp. 1211-1217, (May 1988).

Olmer, et al., "Intermetal Dielectric Deposition by Plasma Enhanced Chemical Vapor Deposition," Fifth IEEE/CHMT International Electronic Manufacturing Technology Symposium -Design-to-Manufacturing Transfer Cycle," pp. 98-99 (1988).

"Partitioning Function and Packaging of Integrated Circuits for Physical Security of Data," IBM Technical Disclosure Bulletin, IBM Corp.; 32(1): 46-49 (June 1989).

Hsieh, et al., "Directional Deposition of Dielectric Silicon Oxide by Plasma Enhanced TEOS Process," 1989 Proceedings, Sixth International IEEE VLSI Multilevel Interconnection Conference, pp. 411-415 (1989).

Runyan, W.R., "Deposition of Inorganic Thin Films,"

Semiconductor Integrated Circuit Processing Technology, p. 142

(1990).

Hendricks, et al., "Polyquinoline Coatings and Films: Improved Organic Dielectrics for IC's and MCM's," *Eleventh IEEE/CHMT International Electronics Manufacturing Technology Symposium*," pp. 361-265 (1991).

Tessier, et al., "An Overview of Dielectric Materials for Multichip Modules," SPE, Electrical & Electronic Div.; (6): 260-269 (1991).

Treichel, et al., "Planarized Low-Stress Oxide/Nitride Passivation for ULSI Devices," J. Phys IV, Colloq. (France), 1 (C2): 839-846 (1991).

Vossen, John L., "Plasma-Enhanced Chemical Vapor Deposition," Thin Film Processes II, pp. 536-541 (1991).

Sze, S.M., "Surface Micromachining," Semiconductor Sensors, pp. 58-63 (1994).

Krishnamoorthy, et al., "3-D Integration of MQW Modulators Over Active Submicron CMOS Circuits: 375 Mb/s Transimpedance Receiver -Transmitter Circuit," IEEE Photonics Technology Letters, 2(11): 1288-1290 (November 1995).

Tielert, et al., "Benefits of Vertically Stacked Integrated Circuits for Sequential Logic," IEEE, XP-000704550, 121-124 (December 5, 1996).

"IC Tower Patent: Simple Technology Receives Patent on the IC Tower, a Stacked Memory Technology," http://www.simpletech.com/whatsnew/memory/@60824.htm (1998).

"Miniature Electron Microscopes Without Vacuum Pumps, Self-Contained, Microfabricated Devices with Short Working Distances, Enable Operation in Air," NASA Tech Briefs, 39-40 (1998).

Partial European Search Report for Application No. EP 02009643 (October 8, 2002).

Copies of the aforementioned documents, which are listed on the accompanying Form PTO-1449 (submitted in duplicate), except U.S. patents and U.S. patent application publications (1276 OG 55), are enclosed herewith.

It is respectfully requested that these documents be (1) fully considered by the Patent and Trademark Office during examination of this application; and (2) printed on any patent which may issue on this application. Applicants request that a copy of Form PTO-1449, as considered and initialed by the Examiner, be returned with the next communication.

This Statement is being submitted more than three months from the application filing date but before the mailing date of the first Office Action on the merits.

In accordance with 37 C.F.R. § 1.97(b)(3), submission of this Statement requires no fee. However, if for any reason a fee is due, the Director is hereby authorized to charge payment of any fees required in connection with this Information Disclosure Statement to Deposit Account No. 06-1075. A duplicate copy of this statement is transmitted herewith.

An early and favorable action is respectfully requested.

Respectfully submitted,

Jeffrey D. Muller Registration No. 52,056

Agent for Applicants

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New York, New York 10020

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Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### EXPRESS MAIL CERTIFICATION

"Express Mail" Mailing Label No. EL963273288US Date of Deposit: September 23, 2004

I hereby certify that this certification and the following papers and fees:

- Information Disclosure Statement (in duplicate);
- 2. Form PTO-1449 (in duplicate);
- 3. Copies of forty-one (41) cited references; and
- 4. Return postcard

are being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. § 1.10 on the date indicated above and are addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Lillian Garcia

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. APPLN. NO. 10/672,961 ELM/002 Cont. 4 CONF. NO. **APPLICANTS** 9439 Glenn J. Leedy

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**FILING DATE GROUP ART UNIT** 

September 26, 2003 2811

FADEMARY

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### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2,915,722	12/01/59	Foster	336	115	
	3,202,948	08/24/65	Farrand	336	115	
	3,559,282	02/02/71	Lesk	438	113	
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	3,615,901	10/26/71	Medicus	148	11.5 R	
	3,716,429	02/13/73	Napoli et al.	156	17	
	3,777,227	12/14/73	Krishna et al.	257	578	
	3,868,565	02/25/75	Kuipers	324	207.26	
	3,922,705	11/25/75	Yerman	357	26	
	3,997,381	12/14/76	Wanlass	156	3	
	4,070,230	01/24/78	Stein	156	657	
	4,131,985	01/02/79	Greenwood et al.	29	580	
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	4,251,909	02/24/81	Hoeberechts	29	580	
	4,262,631	04/21/81	Kubacki	118	723MP	
	4,394,401	07/19/83	Shioya et al.	427	574	
	4,401,986	08/30/83	Trenkler et al.	340	870.32	
	4,416,054	11/22/83	Thomas et al.	29	572	
	4,500,905	02/19/85	Shibata	357	68	
	4,539,068	09/03/85	Takagi et al.	156	614	
	4,585,991	04/29/86	Reid et al.	324	158 P	
	4,612,083	09/16/86	Yasumoto et al.	156	633	
	4,617,160	10/14/86	Belanger et al.	264	40.1	
	4,618,397	10/21/86	Shimizu et al.	156	628	
	4,618,763	10/21/86	Schmitz	250	211R	
	4,663,559	05/05/87	Christensen	313	336	

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	4,693,770	09/15/87	Hatada	156	151	
	4,702,336	10/27/87	Maeda et al.	180	197	
	4,702,936	10/27/87	Seibert et al.	427	583	
	4,706,166	11/10/87	Go	361	403	
	4,721,938	01/26/88	Stevenson	338	4	
	4,761,681	08/02/88	Reid	357	68	
	4,784,721	11/15/88	Holmen et al.	156	647	
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	Re B14,940,916	11/26/96	Borel et al.	315	306	
	4,950,987	08/21/90	Vranish et al.	324	207.23	
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	4,957,882	09/18/90	Shinomiya	438	65	
	4,965,415	10/23/90	Young et al.	200	83 N	
	4,966,663	10/30/90	Mauger	205	656	
	4,983,251	01/08/91	Haisma et al.	438	3	
	4,994,735	02/19/91	Leedy	324	158	
	5,000,113	03/19/91	Wang, et al.	118	723	
	5,008,619	04/16/91	Keogh et al.	324	207.17	
	5,010,024	04/23/91	Allen et al.	438	659	

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	5,103,557	04/14/92	Leedy	29	832	
	5,110,373	05/05/92	Mauger	148	33.2	,
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	5,116,777	05/26/92	Chan et al.	438	234	
	5,130,894	07/14/92	Miller	361	393	7,
	5,132,244	07/21/92	Roy	438	477	
	5,151,775	09/29/92	Hadwin	357	80	
	5,156,909	10/20/92	Henager, Jr. et al.	428	334	
•	5,203,731	04/20/93	Zimmerman	445	24	
	5,225,771	07/06/93	Leedy	324	158	
	5,236,118	08/17/93	Bower et al.	228	193	
	5,240,458	08/31/93	Linglain, et al.	464	63	
	5,259,247	11/09/93	Bantien	73	718	
	5,262,351	11/16/93	Bureau et al.	437	183	
	5,270,261	12/14/93	Bertin et al.	437	209	
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	5,324,687	06/28/94	Wojnarowski	437	225	
	5,354,695	10/11/94	Leedy	438	411	

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	5,363,021	11/08/94	MacDonald	315	366	
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	5,385,909	01/31/95	Nelson et al.	514	291	
	RE 34,893	04/04/95	Fujii et al.	257	419	
	5,420,458	05/30/95	Shimoji	257	622	
	5,424,920	06/13/95	Miyake	361	735	
	5,426,072	06/20/95	Finnila	437	208	
	5,426,363	06/20/95	Akagi et al.	324	239	
	5,432,444	07/11/95	Yasohama et al.	324	240	
	5,432,729	07/11/95	Carson et al.	365	63	
	5,434,500	07/18/95	Hauck et al.	324	67	
	5,451,489	09/19/95	Leedy	430	313	
	5,453,404	09/26/95	Leedy	437	203	
	5,457,879	10/17/95	Gurtler et al.	29	895	
	5,476,813	12/19/95	Naruse	437	132	
	5,489,554	02/06/96	Gates	437	208	
	5,502,667	03/26/96	Bertin et al.	365	51	
	5,512,397	04/30/96	Leedy	430	30	
	5,527,645	06/18/96	Pati et al.	430	5	
	5,529,829	06/25/96	Koskenmaki et al.	428	167	
	5,534,465	07/09/96	Frye et al.	437	209	
	5,555,212	09/10/96	Toshiaki et al.	365	200	
	5,563,084	10/08/96	Ramm et al.	437	51	
	5,571,741	11/05/96	Leedy	437	51	
	5,580,687	12/03/96	Leedy	430	5	
	5,581,498	12/03/96	Ludwig et al.	365	63	
	5,582,939	12/10/96	Pierrat	430	5	

### **EXAMINER**

### **DATE CONSIDERED**

# U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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APPLICANTS Glenn J. Leedy	CONF. NO. 9439
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### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,583,688	12/10/96	Hornbeck	359	291	
	5,592,007	01/07/97	Leedy	257	347	
	5,592,018	01/07/97	Leedy	257	619	
	5,595,933	01/21/97	Heijboer	439	20	
	5,606,186	02/25/97	Noda	257	226	
	5,627,112	05/06/97	Tennant et al.	438	113	
	5,629,137	05/13/97	Leedy	430	313	-
	5,633,209	05/27/97	Leedy	435	228	
	5,637,536	06/10/97	Val	438	686	
	5,654,127	08/05/97	Leedy	430	315	
	5,654,220	08/05/97	Leedy	438	25	
	5,656,552	08/12/97	Hudak et al.	438	15	
	5,675,185	10/07/97	Chen et al.	257	774	
	5,694,588	12/02/97	Ohara et al.	395	566	
	5,725,995	03/10/98	Leedy	430	315	
	5,750,211	05/12/98	Weise et al.	427	579	
	5,760,478	06/02/98	Bozso et al.	257	777	
	5,773,152	06/30/98	Okonogi	428	446	
	5,786,116	07/28/98	Rolfson	430	5	
	5,793,115	08/11/98	Zavracky et al.	257	777	i a
	5,831,280	11/03/98	Ray	257	48	
	5,834,334	11/10/98	Leedy	438	107	
	5,840,593	11/24/98	Leedy	438	6	
	5,856,695	01/05/99	Ito et al.	257	370	
	5,868,949	02/09/99	Sotokawa et al.	216	18	
	5,869,354	02/09/99	Leedy	438	110	
	5,870,176	02/09/99	Sweatt et al.	355	53	
i	5,880,010	03/09/99	Davidson	438	455	

#### **EXAMINER**

### **DATE CONSIDERED**

# U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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#### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,882,532	03/16/99	Field et al.	216	2	
	5,902,118	05/11/99	Hübner	438	106	
	5,915,167	06/22/99	Leedy	438	108	
	5,946,559	08/31/99	Leedy	438	157	
	5,985,693	11/16/99	Leedy	438	107	
	5,998,069	12/07/99	Cutter et al.	430	5	
	6,008,126	12/28/99	Leedy	438	667	
	6,020,257	02/01/00	Leedy	438	626	
	RE 36,623	03/21/00	Wang, et al.	427	579	
	6,045,625	04/04/00	Houston	148	33.3	
	6,084,284	07/04/00	Adamic, Jr.	257	506	
	6,087,284	07/11/00	Brix, et al.	501	69	
	6,097,096	08/01/00	Gardner et al.	257	777	
	6,133,640	10/17/00	Leedy	257	778	
	6,194,245 B1	02/27/01	Tayanaka	438	57	
	6,197,456 B1	03/06/01	Aleshin et al.	430	5	
	6,208,545 B1	03/27/01	Leedy	365	51	
	6,236,602 B1	05/22/01	Patti	365	201	
	6,261,728 B1	07/17/01	Lin	430	30	
	6,288,561 B1	09/11/01	Leedy	324	760	
	6,294,909 B1	09/25/01	Leedy	324	207.17	
	6,518,073	02/11/03	Momohara	438	4	12/10/2001

## **FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
				027,100		YES	NO
	DE 32 33 195	03/1983	Germany				
	JP 60-74643	04/1985	Japan				
	JP S60-126871	07/1985	Japan				

## **EXAMINER**

### **DATE CONSIDERED**

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ELM/002 Cont. 4	<b>APPLN. NO.</b> 10/672,961
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### **FOREIGN PATENT DOCUMENTS**

EP 0 189 976	08/1986	EPO		
JP S63-229862	09/1988	Japan		
JP H01-199476	09/1988	Japan		
2641129	12/1988	France		
EP 0 314 437	05/1989	EPO		
GB 2,215,168	09/1989	UK		
JP 402027600A	01/1990	Japan		
JP 02-082564	03/1990	Japan		
 JP H03-284871	12/1991	Japan		
WO 92/03848	03/1992	PCT		
JP 04-076946	03/1992	Japan		
JP 04-083371	03/1992	Japan		
JP 04-107964	04/1992	Japan		
JP 04-196263	07/1992	Japan		
 EP 0 731 525	09/1996	EPO		
WO 98/19337	05/1998	PCT		
WO 01/05366	01/2001	PCT		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Aboaf, J.A., "Stresses in SiO <sub>2</sub> Films Obtained from the Thermal Decomposition of Tetraethylorthosilicate – Effect of Heat Treatment and Humidity," J. Electrochem. Soc.: Solid State Science; 116(12): 1732-1736 (Dec. 1969).
	Scheuerman, R.J., "Fabrication of Thin Dielectric Films with Low Internal Stresses," J. Vac. Sci. and Tech., 7(1): 143-146 (1970).
	Bailey, R., "Glass for Solid-State Devices: Glass film has low intrinsic compressive stress for isolating active layers of magnetic-bubble and other solid-state devices," NASA Tech Brief (1982).
	Alloert, K., et al., "A Comparison Between Silicon Nitride Films Made by PCVD of N <sub>2</sub> -SiH <sub>4</sub> /Ar and N <sub>2</sub> -SiH <sub>4</sub> /He," <i>Journal of the Electrochemical Society</i> , Vol. 132, No. 7, pp. 1763-1766, (July 1985).
	Nguyen, S.V., "Plasma Assisted Chemical Vapor Deposited Thin Films for Microelectronic Applications J. Vac. Sci. Technol. Vol. B4, No. 5, pp.1159-1167, (Sep/Oct. 1986).

## **EXAMINER**

## **DATE CONSIDERED**

<b>FORM</b>	PTO-1449

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Wolf, Stanley, "Basics of Thin Films," Silicon Processing for the VLSI Era, pp. 115, 192, 193, and 199 (1986).
	Knolle, W.R., et al., "Characterization of Oxygen-Doped, Plasma-Deposited Silicon Nitride," <i>Journal of the Electrochemical Society</i> , Vol. 135, No. 5, pp. 1211-1217, (May 1988).
	Olmer, et al., "Intermetal Dielectric Deposition by Plasma Enhanced Chemical Vapor Deposition," Fifth IEEE/CHMT International Electronic Manufacturing Technology Symposium - Design-to-Manufacturing Transfer Cycle," pp. 98-99 (1988).
	"Partitioning Function and Packaging of Integrated Circuits for Physical Security of Data," IBM Technical Disclosure Bulletin, IBM Corp.; 32(1): 46-49 (June 1989).
	Hsieh, et al., "Directional Deposition of Dielectric Silicon Oxide by Plasma Enhanced TEOS Process," 1989 Proceedings, Sixth International IEEE VLSI Multilevel Interconnection Conference, pp. 411-415 (1989).
	Runyan,W.R., "Deposition of Inorganic Thin Films," Semiconductor Integrated Circuit Processing Technology, p. 142 (1990).
	Hendricks, et al., "Polyquinoline Coatings and Films: Improved Organic Dielectrics for IC's and MCM's," <i>Eleventh IEEE/CHMT International Electronics Manufacturing Technology Symposium</i> ," pp. 361-265 (1991).
	Tessier, et al., "An Overview of Dielectric Materials for Multichip Modules," SPE, Electrical & Electronic Div.; (6): 260-269 (1991).
	Treichel, et al., "Planarized Low-Stress Oxide/Nitride Passivation for ULSI Devices," J. Phys IV, Colloq. (France), 1 (C2): 839-846 (1991).
	Vossen, John L., "Plasma-Enhanced Chemical Vapor Deposition," <i>Thin Film Processes II</i> , pp. 536-541 (1991).
	Sze, S.M., "Surface Micromachining," Semiconductor Sensors, pp. 58-63 (1994).
	Krishnamoorthy, et al., "3-D Integration of MQW Modulators Over Active Submicron CMOS Circuits: 375 Mb/s Transimpedance Receiver –Transmitter Circuit," IEEE Photonics Technology Letters, 2(11): 1288-1290 (November 1995).
	Tielert, et al., "Benefits of Vertically Stacked Integrated Circuits for Sequential Logic," IEEE, XP-000704550, 121-124 (December 5, 1996).
	"IC Tower Patent: Simple Technology Receives Patent on the IC Tower, a Stacked Memory Technology," http://www.simpletech.com/whatsnew/memory/@60824.htm (1998).
	"Miniature Electron Microscopes Without Vacuum Pumps, Self-Contained, Microfabricated Devices with Short Working Distances, Enable Operation in Air," NASA Tech Briefs, 39-40 (1998).
	Partial European Search Report for Application No. EP 02009643 (October 8, 2002).

### **EXAMINER**

#### **DATE CONSIDERED**